

WHAT IS CLAIMED IS:

1. A multi-contact type relay, controlled by an electromagnet, the relay configured so that power is supplied to a load through a BCM (Body Control Module) in accordance with a switching signal from an integration type switch, and coils are activated in accordance with
5 each switching signal from the BCM thereby forming contacts, relay comprising:

an operational part forming an E-shaped steel core, the operational part comprising:

three vertical terminals;

a horizontal part that horizontally connects the three vertical terminals; and

first and second activated coils connected to a power voltage source and

10 wound around the horizontal part between the connections of the horizontal part with the three vertical terminals;

a switching part positioned above the operational part, the switching part having a permanent magnet and a movable contact that are moved horizontally to the left or right based on a repulsive force and an attractive force generated by an electromagnetic force of the first
15 and second activated coils; and

a fixed contact part positioned above the switching part and has a plurality of fixed contacts selectively switched with the movable contact of the switching part that is movable in the left and right directions.

2. The multi-contact type relay in claim 1, wherein said first and second activated coils
20 are wound on the horizontal part of the operation unit in the same direction, and the position of the movable contact of the switching part is changed by changing the direction of the current.

3. A multi-contact type relay, controlled by an electromagnet, the relay configured so that power is supplied to a load through a BCM (Body Control Module) in accordance with a
25 switching signal from an integration type switch, and coils are activated in accordance with each switching signal from the BCM thereby forming contacts, relay comprising:

an operational part forming an E-shaped steel core, the operational part comprising:

three vertical terminals;

a horizontal part that horizontally connects the three vertical terminals; and

30 first and second activated coils connected to a power voltage source and wound around the horizontal part between the connections of the horizontal part with the three vertical terminals;

a switching part positioned above the operational part, the switching part having a permanent magnet and a movable contact that are moved horizontally to the left or right based on a repulsive force and an attractive force generated by an electromagnetic force of the first and second activated coils; and

- 5 a fixed contact part having a plurality of fixed contacts that are positioned above the switching part in the vertical direction with different lengths, wherein one of the plurality of fixed contacts are switched with the movable contact of the horizontal movement of the switching part based on a step-by-step method and a series switching method.